

Application No.: 10/091,944

Docket No.: JCLA5862

AMENDMENT

In the Claims:

Claim 1. (original) A control system for a charge coupled device of a scanner, the charge coupled device having ability to process a plurality of primary colors, the charge coupled device at least including a shift register and a transfer gate, the control system comprising:

a transfer controller, coupled to the charge coupled device, used to provide a transfer signal and a charge-shift control signal, wherein the charge coupled device is controlled by the transfer signal, and all charge data with respect to the primary colors are transferred to the shift register through the transfer gate in one operation when the transfer signal is true;

a charge-shift enable generator, coupled to the transfer controller and sequentially issuing a plurality of charge-shift enable signals with respect to the primary colors, according to the transfer signal; and

a combined logic circuit, coupled to the transfer controller, the charge-shift enable generator, and the charge coupled device, wherein according to the charge-shift enable signals and the charge-shift control signal, issuing a plurality of charge-shift clock signals with respect to the primary colors after computation by the combined logic circuit,

wherein each one of the charge-shift clock signals corresponds to one of the primary

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colors, and the shift register shifts out the corresponding charge data according to each of the charge-shift clock signals.

Claim 2. (original) The control system of claim 1, wherein the combined logic circuit includes a plurality of OR gates, and each of the OR gates receives one of the charge-shift enable signals and the charge-shift control signal, and issues one of the charge-shift clock signals, whereby the shift register sequentially shifts out the charge data of the primary colors with respect to the charge-shift clock signals.

Claim 3. (original) The color scanner system of claim 1, wherein the primary colors include red, green, and blue.

Claim 4. (original) A control system for a charge coupled device of a scanner, the charge coupled device having ability to process a plurality of primary colors, the charge coupled device at least including a shift register and a transfer gate, the control system comprises:

a transfer controller, coupled to the charge coupled device, used to provide a transfer signal and a plurality of charge-shift control signals, each of which corresponds to one of the primary colors, wherein the charge coupled device is controlled by the transfer signal, and all charge data with respect to the primary colors are transferred to the shift register through the transfer gate in one operation when the transfer signal is true; wherein the plurality of

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charge-shift control signals are coupled to the shift register so that the shift register shifts out the charge data of one of the primary colors when triggered by its corresponding charge-shift control signal

Claim 5. (original) The improved control system of claim 4, wherein the primary colors include red R, Green G, and Blue B.

Claims 6-11. (canceled)